

A DEVICE FOR REDUCING JET ENGINE EXHAUST NOISE USING
OSCILLATING JETS

ABSTRACT OF THE DISCLOSURE

[0038] A device for reducing engine exhaust noise in an aircraft engine includes a number of oscillating jets which direct an oscillating flow into the engine exhaust. The oscillating jets are connected via channels to a turbomachinery source of high pressure gas, where the source is located upstream from the engine exhaust portion. The high pressure gas passes through the oscillating jets, which have a nozzle with a triangular shaped orifice and an exhaust pipe, and exits the oscillating jets having a oscillating flow. The oscillating flow mixes with the engine exhaust thus reducing the noise created by the engine exhaust.